# *Lab 2 – User Stories*

Date Assigned: Tuesday, August 27

Date due: **Tuesday, August 27 end of lab**

**Learning Objectives**

Upon successful completion of this lab exercise, the student will be able to:

* Understand how to write a user story;
* Break a user story into smaller user stories applying different strategies;
* Write functional and non-functional acceptance criteria for user stories;
* Break a user story into tasks; and
* Estimate the relative size of tasks.

To Start:

1. Download a copy of the Lab 2 file from the Moodle page.
2. Save this document as a Word document named YourUserName\_K30\_L02\_user\_Stories.docx in your 420-K30 folder on your home drive. The document will hold your answers for your lab.
3. Research from class notes and resources, and online resources to help with the questions.
4. Write your answers to the lab questions in the appropriate locations in this file and be sure to save.
5. When you are ready to have your lab marked, notify the professor.
6. When you are finished, submit to Moodle.

To Do:

**Part A – HVK User Stories (Group)**

1. Capture your user stories here:

|  |  |  |
| --- | --- | --- |
| User Story # | User Story | Acceptance Criteria |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

1. Do your User stories follow the INVEST guidelines? Explain why, why not.

<answer>

1. Do your Acceptance criteria follow guidelines (see rubric)? Explain why, why not.

<answer>

**Part B – HVK User Stories Estimation (Group)**

1. Capture your user stories here:

|  |  |  |  |
| --- | --- | --- | --- |
| User Story # | User Story | Estimation points - Poker | Estimation points - RTT |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

1. Analyze- is there a difference between the results of both estimation techniques?

<answer>

1. Analyze – Which estimation technique would you prefer to generate good estimates and why?

<answer>

1. Analyze – Explain how story points and sprint velocity relate

<answer>

**Part C - Practice with User Stories (individual)**

Write user stories (using the format taught in class) for the following scenarios.

1. For a website that sells books, write a user story that describes the ability of a shopper to be able to see reviews from other shoppers.
   1. First, write a high-level user story for this scenario.
   2. Now break this user story into 3 smaller stories.
   3. Write at least 1 functional and 1 non-functional acceptance criteria for each user story in b. Make sure you use different non-functional examples for each.
   4. Explain what approach you took for breaking down the user story and why?
2. For a Course Management System (like Moodle), write a user story that describes the capability of a student to be able to access course material and submit assignments.
   1. First, write a high-level user story for this scenario.
   2. Now break this user story into 3 smaller stories.
   3. Write at least 1 functional and 1 non-functional acceptance criteria for each user story in b. Make sure you use different non-functional examples for each.
   4. Explain what approach you took for breaking down the user story and why?

**Part D – User Stories, Tasks, Estimates (individual):**

1. Now using an example from the familiar HVK world, given the high-level user story: *As a clerk I want to be able to search for a customer so I can find their reservation information:*
2. Break this user story into 3 smaller stories.
3. Write at least 1 functional and 1 non-functional acceptance criteria for each user story. (Make sure you don’t just use the same examples from above and for each. Also consider the differences between Black box and White Box testing (i.e. Black box testing – test the system as a whole without knowledge of the internal structure /implementation, White box testing – testing with knowledge /use of the internal implementation/structure).
4. Explain what approach you took for breaking down the user story and why?
5. Break one user story from a. into tasks and estimate each task using a t-shirt approach, i.e. either assign it an estimate of XS, S, M, L, or XL.
6. Explain how you came up with these estimates? What did you use?

**To submit:**

When you have completed the lab save the file and upload the following to Moodle:

* YourUserName\_K30\_L02\_User\_Stories.docx.

**Marking Scheme**

|  |  |
| --- | --- |
|  | Marks |
| Part A |  |
| User stories follow INVEST | 8 |
| Acceptance criteria follows guidelines |  |
| What is acceptable | 4 |
| What is not acceptable | 4 |
| Simple and unambigouous | 4 |
| Functional and non-functional | 4 |
|  |  |
|  |  |
| Part C |  |
| 1 a high-level user story | 2 |
| 1b 3 smaller user stories | 6 |
| 1c 1 functional and 1-non-functional ac for each | 6 |
| 1d approach explained | 2 |
| 2 a high-level user story | 2 |
| 2b 3 smaller user stories | 6 |
| 2c 1 functional and 1-non-functional ac for each | 6 |
| 2d approach explained | 2 |
| Part D |  |
| 1a 3 smaller user stories | 6 |
| 1b 1 functional and 1-non-functional ac for each | 6 |
| 1c approach explained | 2 |
| 1d tasks and estimates for one user story | 6 |
| 1e how did you estimate | 2 |
| Organization – handed into Moodle correctly, proper use of English | 2 |
| Total | 80 |